



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0684/S, REVISION 0

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model X2087 (Manufactured on or after November 10, 1986).
2. Source Description - Annular cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 35.6 mm (1.4 in.) in diameter and 13.0 mm (0.51 in.) in length. Minimum wall thickness of the outer encapsulation is 0.48 mm (0.019 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61772, Rev. A.
3. Radioactive Contents - No more than 40.0 GBq (1.08 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with a beryllium powder that is then pressed into a pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires October 31, 2009.

1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

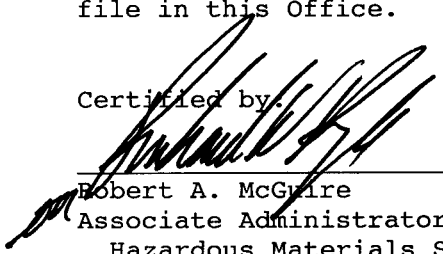
(- 2 -)

CERTIFICATE USA/0684/S, REVISION 0

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated September 7, 2004 submitted by AEA Technology QSA, Inc, Burlington, MA, and in consideration of other information on file in this Office.

Certified by:

OCT - 5 2004

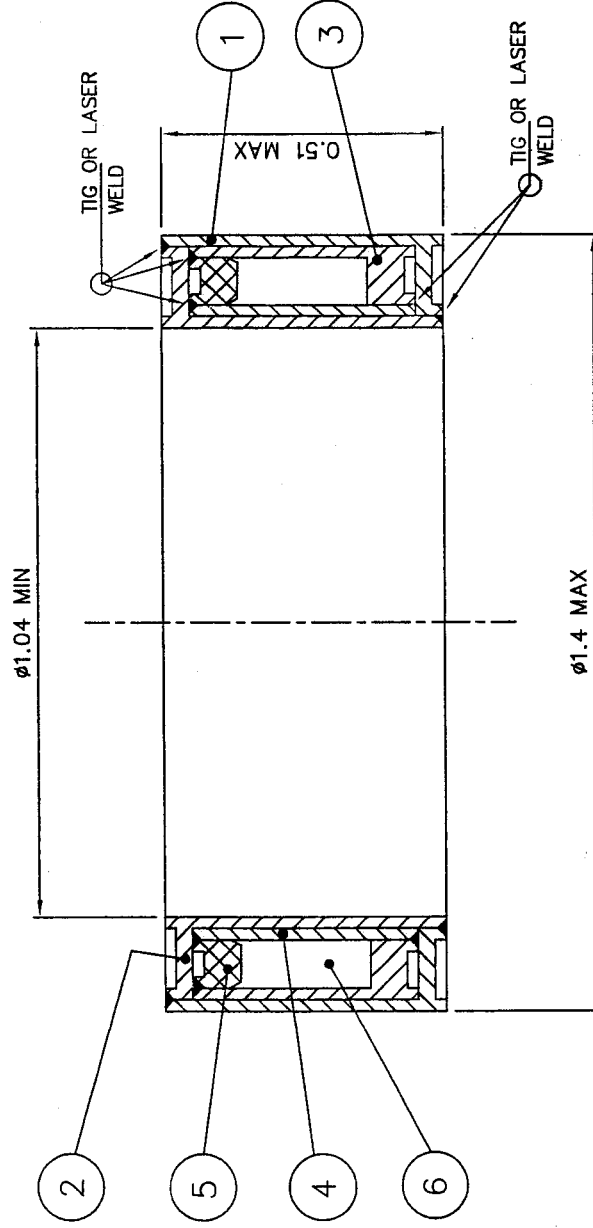


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

(DATE)

Revision 0 - Original issue.

Item No	Description	No off
1	OUTER SHEATH STAIN.STL.	1
2	INNER SHEATH STAIN.STL.	1
3	CELL BODY STAIN.STL.	1
4	CELL INNER STAIN.STL.	1
5	CELL END RING STAIN.STL.	1
6	ACTIVE MATERIAL	A/R



APPROVALS		AEATECHNOLOGY QSA 40 NORTH AVE, BURLINGTON, MA 01803	
<i>R. J. [Signature]</i> 7 Sept 01	<i>X. P. [Signature]</i> 7 Sept 01	TITLE X2087 CAPSULE ASSEMBLY	
DIMENSIONS IN INCHES UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 X.X ±0.1 X.XX ±0.05 ANGULAR ±5°		SIZE A DWG. NO. RBA61772 SCALE: NONE	REV A SHEET 1 OF 1